Association Business

AMERICAN POTATO JOURNAL SUBJECT AND AUTHOR INDEX VOLUME 69, 1992

Subject Index

Abrasive peel test, 423, 426, 428
Aerial tubers, 646
Aerobic wound induced soft rot resistance, 239, 241, 242, 244–247
Analysis (sugars), 807
Atlantic model, 356–359
Atomic absorption spectroscopy, 98
AUDPC's disease progress curves, 638–640
Bacteria
  Clavibacter michiganensis, 290, 363
  Corynebacterium sepedonicum, 289–296, 363-366, 370, 631
  Erwinia carotovora subsp. *carotovora*, 39–41
  Erwinia carotovora subsp. *carotovora* (EC14), 239–251
  Erwinia chrysanthemi, 240
Bacterial ring rot immunity/tolerance, 290
Bacterial ring rot susceptible cultivars grown in Idaho, 303
Beetle eater, 158
Blackspot index, 424, 426, 429–431
Blackspot index for 12 cultivars grown in Idaho, 428
Blackspot susceptibility, 423–425, 430, 434
British Mycological Society key, 637
Bromoethane adsorption, 437
Bromoethane properties, 438, 439
(CELSS) controlled ecological life support systems, 230
Chemicals
  Ammonium sulfate, 492
  Antibody stain, 289, 292
  Bromoethane, 437–439
  Bromic ether, 438
  Butanol, 23
  Carbon disulfide, 438
  Chloroform, 23
  Cycloheximide, 241, 242, 247
  Disodium ethylenediaminetetracetate (EDTA), 23
  Ethanol, 24
  Ethyl bromide, 438
  Ethylene chlorohydrin, 437
  Hydrobromic ether, 438
  Hydrochloric acid, 24
  Maleic hydrazide, 28
  Mehlich I solution, 98
  Mercaptoethanol, 23
  Methyl bromide, 494
  $MgCl_2$, 24
  Monobromoethane, 438
  NaCl, 23
  NaN_3, 24
  Pectinase, 23
  Phosphate buffer, 23, 365
  Polyethylene glycol, 23
  Rindite, 438
  Sodium bicarbonate, 24
  Sodium carbonate, 655
  Sodium diethyldithiocarbamate (NaDIECA), 21
  Sodium hypochlorite, 88, 107, 241, 266, 365, 646
  Sorbitol, 550
  Sulfuric acid, 655
  Tween, 3, 20, 23, 133, 549
  $ZnCl_2$, 24
Chemical maturity of cultivars, 806, 812, 814
Clonal selection for late blight resistance, 187, 190, 191
Comparison of 2 strains of *Corynebacterium sepedonicum* for pathogenicity, 295
Consumer preference for round whites, 13, 16, 17
Consumer ratings of round whites, 13, 16, 17
Consumer satisfaction with round whites, 13, 15, 17
Crop rotation (nonhost) effects on *V. dahliae*, 495–499
Crop water stress, 831, 832
Crop water stress index, 831–840
Cultivar response to continuous light, 232, 233, 235
Cultivar response to high temperatures, 232, 233, 235
Cultivars used in CELSS studies, 232
Dean model, 356–359
Defoliation by hail, 705, 706, 712
Diseases
  Blackspot, 633

Blackspot bruise, 428, 791
Black scurf, 645–650, 791
Bacterial ring rot, 289–296, 363, 791
Bacterial soft rot, 39, 40, 239, 251, 791
Common scab, 331, 516, 517, 631, 846
Dark-end tubers, 419
Disease reactions of Ranger Russet and Russet Burbank, 487
Fusarium storage rots, 179, 185, 483, 791
Fusarium spp., 179
Hollow heart, 519, 537–539, 633
Internal blackspot, 423, 424, 430, 488, 547, 548
Internal brownspot, 223, 353, 354, 486
Internal heat necrosis, 355–356
Late blight, 187, 190, 846
Late blight storage rot, 187, 190, 192
Leafroll, 484
Net necrosis, 483
Physiological disorders, 353, 355, 791
Rhizoctonia, 516, 517
Verticillium wilt, 105, 106, 110, 372, 376, 483, 484, 489, 491, 503, 507, 509, 516, 517, 801, 802
Disease resistant cultivars, 636
Disease severity (BRR) ratings, 365, 367–369, 637
Disease symptom expression, 363, 364
Donor plants, 131, 135
Dormancy release technology, 437–445
Dry matter accumulation 653–657, 660, 667, 673
Dry matter distribution, 653–657, 660
Electrophoresis, 629, 634, 791
Enzymes
Arachidonic acid, 105
Cellulases, 240, 249
Cycloheximide, 241, 242, 247
Elicitors, 105
ELISA, 161
Enzyme analysis, 242
Lipoxygenase, 105, 106, 110
Nicotinamide-adenine dinucleotide phosphate (NADP), 22
Pectate lyases, 240, 249
Peroxidase, 105, 106, 113
Proteases, 240, 249
Phospholipases, 240, 249
Equipment
6300 Weldotron film magna-lock sealer, 276
7001 Weldotron heat-tunnel shrinker, 276
Agtron E-10 colorimeter, 386
Agtron E5F colorimeter, 647
CR-5 data recorder, 655
Cryovac D-955 film wrapper, 276
Dynatech Immulon immunoplates, 21, 24
GA-7 Magenta vessel, 463
Glucose analyzer YSI-2000, 386
Home fryer model DCP-6, 527
Infared thermometers, 823
Ion-exchange columns HPX-87H, 528
LI-3000 leaf area meter, 655
Microprocessor conviron model CMP2023, 145
Multi-point temperature recorder model KS8237, 145
Multi-vapor lamps, 291
Neutron probes, 795
OX300 biological oxidizer, 656
Photosynthesis meter Li-Cor-LI-1600, 539
Refrigerated storage conviron model C1112, 145
Scintillation spectrometer, 656
Evapotranspiration (ET), 832
Fertilization
Calcium fertilization, 95, 96, 561, 569
Effect on bacterial ring rot potential, 39, 40, 44–48
Calcium and potassium concentrations in petioles, 98–101
Calcium placement, 95–97, 103, 562, 569
Nitrogen fertilizer, 309, 633
Nitrogen recovery, 309
Osmocote fertilizer granules, 291
Potassium fertilization, 95, 96, 103, 669
Effect on bacterial ring rot potential, 39, 43–45, 47, 48
Starter nitrogen, 311
Supplementary nitrogen, 311
Fertilizer materials
$CaNo_3$, 40, 47
$CaSO_4$, 39, 40, 46, 95
F503G, 97
Gypsum, 41, 95
K_2SO_4, 97, 196, 197, 563
$MgSO_4$, 47, 97
NH_4NO_3, 47, 97, 196, 197, 310, 373, 669
Osmocote granules (14–14–14), 364
Superphosphate, 196, 197, 369, 373
Fissured (cracked) tubers, 645–650
Freezing damage to seed potatoes, 143
Fumigants
DD-PIC, 492, 493

Telone C-17, 492
Telone II, 492
Fumigation, 489, 491, 495
Effects on *Verticillium dahliae,* 495, 496, 499, 500
Fungi
Alternaria solani AG-4 , 512, 631, 791
Anthracnose, 548
Colletotrichum atramentarium, 547
Colletotrichum coccodes, 547–555
Colletotrichum lindemuthianum, 114
Fusarium dry rot, 483
Phoma exigua var. *foveata,* 114
Phytopthora infestans, 114, 187, 189, 190, 631, 635, 636
Phytophora infestans isolates, 637, 640–642
Rhizoctonia solani, 645
Rhizoctonia AG-3, 646, 647
Verticillium albo-atrum, 106, 483, 484, 491
Verticillium dahliae, 105, 106, 110, 371, 373–375, 378–382, 489–500, 503–512, 548, 551–555, 557
Verticillium spp., 107
Fungicides
Bravo 500, 386
Captan, 794
Dithane M45, 386
Mancozeb, 98, 669
Ridomil MZ-58, 386
Gelling agents, 461, 463
Gelling agent effects on tuberization, 464, 465
Glycoalkaloids, 515, 517, 631, 693, 694, 700–702, 846
Chaconine, 846, 693–700
Solanine, 846, 693–700
Glycoalkaloid analysis, 695
Greening problems, 515
Growth of potato plants by seed size, 117, 122, 123
Growth regulation, 265–273
Growth regulators
BAS-106, 133, 137
BAS-111, 133, 137
Benzylaminopurine (BAP), 1, 3
Bromoethane, 437–445
Colchicine, 2
Cycocel (CCC), 133–136, 138
Cytokinin, 132, 463
Gelite, 461, 462, 466
Gibberellic acid (GA), 1, 3, 132–137, 265, 267
Gibberellin inhibitors, 133, 134, 138
Indole-3-acetic acid (TAA), 1, 3, 265, 267
Kinetin, 265, 267
a-naphthaleneacetic acid (NAA), 1, 3
Rindite, 438
Triazole compounds, 131
Growth retardants, 131, 133
Growth stages of potato, 705–709
Growth stunting under continuous light, 231
Hail damage (simulated), 705–714
Hail machine, 708
Heat necrosis, 221, 222, 226, 227, 515–517
Influence of location on incidence of heat necrosis, 221, 226, 227
Influence of tuber size on incidence of heat necrosis, 221, 226, 227
Influence of year on incidence of heat necrosis, 221, 226, 227
Heat sprouts, 797–799
Heat stress, 653–656, 664, 668, 674
Heat-sum modeling, 353–359
Heat-temperature effects on-
Canopy development, 667, 671–674
Cultivar development, 667, 668, 674
Dry matter accumulation, 667, 673
Heat tolerance, 654
Herbicides
2, 4-D, 492
Alachlor, 492
Diquat, 172, 189, 386, 647
Linuron, 167–173
Metolachlor, 167–173, 386, 631
Metribuzin, 189, 386, 547, 551, 554, 555, 557, 631
Prowl, 97
Sencor, 97, 167, 173, 189, 631
Sethoxydim, 167–173
Herbicide application methods
Post emergence, 168–174
Pre-emergence, 169–174
Pre-emergence (delayed), 168–174
Pre-plant incorporated, 168–174
Herbicide timing, 654
High minimum temperatures, 353
High temperature cultivar yields, 231
Hilling potatoes, 167, 168
Hollow heart screening, 540, 541, 543
Host resistance stability, 635, 636, 641, 642
HPLC procedure, 427, 433
Hydrated lime effect on suppressiveness of verticillium wilt, 511

Hypoxic conditions, 240–246
Hypoxic resistance to soft rot, 239, 242–251
Hypoxic stress, 239, 244, 249–251
Impact bruise test, 424, 426, 428
Induced and non-induced leaf-buds, 131, 135, 136
Inducing conditions, 132, 133, 136
Influence of nitrogen fertilization on true potato seed quality, 85, 87, 89–91
Insects
  Aphids, 157, 162–164, 493, 843, 845
  Aphis nasturtii, 158
  Arachnida, 162
  Chrysopidae, 163
  Coccinellidae, 163
  Colorado potato beetle, 157, 158, 162–164, 394, 473, 474, 493, 843, 845
  Colorado potato beetle biology, ecology, and control, 474, 480
  Colorado potato beetle density and mortality in overwintering adults, 475–479
  Colorado potato beetle phenology, 474, 476
  Colorado potato beetle population dynamics, 473, 474, 479
  Empoasca fabae, 391, 392, 693
  Flea beetles, 843, 845
  Golden nematode resistance, 266
  Leafhopper, 391, 392, 693, 695, 843, 845
  Leptinotarsa decemlineata, 157, 158, 394, 473, 477, 843
  Macrosiphum euphorbiae, 158, 163
  Potato tuber moth, 843, 845
Insecticides
  Bacillus thuringiensis, 394, 695
  Deltamethrin, 189
  Disulfoton, 373
  Endosulfan, 189
  Methamidophos, 493
  Temik, 99, 372, 374, 378, 386, 493
  Systemic insecticide-nematicide, 379, 380
Intercropping systems with maize and faba bean, 195–200
Internal heat necrosis, 353, 355–361
Irradiation injury, 231
Irrigation deficits, 413, 793, 794
Irrigation management, 413, 414, 417, 420, 832
Irrigation timing, 413, 420, 793
In vitro culture technique for late blight resistance, 187, 190, 191
Late blight epidemics, 636, 638
Late blight pathosystem, 635, 636
Leaf-bud cuttings, 131
Leafhopper population ratings for nymphs and leaf necrosis, 396
Lesion nematode expression, 371, 373
Malformed tubers, 645–650
Marketing studies, 13, 14, 15
Mass multiplication of nuclear seed stocks, 462
Media
  Ethanol-streptomycin agar, 507
  "Jiffy" peat pellets, 449
  Luria-Bertani broth, 241
  Metro-mix 200, 291, 292, 364
  MS medium, 3
  Murashige-Skoog salts, 265, 266
  Nutrient broth yeast extract, 292
  Perlite, 133
  Potato dextrose agar, 549
  Rye A agar, 637
  Streptomycin-penicillin G-ethanol medium, 493
  V-8 juice medium, 637
  Yeast extract agar, 364
Metribuzin sensitivity, 383
Microsclerotia, 503
Microtubers, 462, 463, 468
Nematodes
  Globodera rastochiensis, 845
  Pratylenchus spp., 371–373
  Pratylenchus neglectus, 371, 372, 374–379, 382
  Pratylenchus penetrans, 371, 372, 375, 378-382
Nitrogen rate for Spartan Pearl cultivar, 790
Non-inducing conditions, 132, 133, 136
Optimal irrigation, 414, 420
P.A.A. Affairs
  Abstracts of papers presented at 76th Annual Meeting of P.A.A., 571–618
  Announcement of 3rd International Symposium on the molecular biology of the potato, 804
  Annual Meeting abstract forms, 781
  Book review - Potatoes of South America-Bolivia, 51
  Call for Graduate Student papers for 1993 Annual Meeting, 779, 849
  Call for nominations for Honorary Life Members, 781, 851
  Call for papers for 1993 Annual Meeting,

777, 847
History of the P.A.A. Certification Section from 1968 to 1991, 401
Honorary Life Members for 1992:
James E. Bryan, 619
Henri Genereux, 620
Kenneth W. Knutson, 621
Harrison McCain, 623
Wallace McCain, 623
Index to A.P.J. Volume 68 (1991), 55
Index to A.P.J. Volume 69 (1992), 852
Minutes of Certification Section Meeting in Vancouver, B.C., Canada, Nov. 1990, 155
Obituaries
James Fontenot, 205
Ted Still, 411
Harvey O. Werner, 53
P.A.A. 76th Annual Meeting Program, 337
Potato research in hot climates held in Nahal-Oz, Israel, 1992, 203
Preregistration for 76th Annual Meeting, 207
Proceedings of 2nd Conference on pinkeye disease of potatoes, 149
Special invited papers for the Symposium on Maintaining Potato Productivity into the 21st Century, 715
Soil resources: What is needed and how do we maintain these resources, 717
A case history: Hundred years of potato production in Europe with special reference to the Netherlands, 731
Potato nutritional management changes and challenges into the next century, 753
Future challenges in managing potato health, 769
Perimedullar tissue expansion, 537, 538
Physical adjustments of planters, 32, 38
Physiological disorders, 221, 222, 353–355, 791
Blackspot bruise, 488
Hollow heart, 483, 484
Sugar ends, 484, 486
Pico-Tag procedure for tyrosine determination, 426
Pith tissue, 537, 538
Planter performance, 31
Plant spacing, 633
Plant species
Alfalfa, 490
Amaranthus spp., 196
Barley, 491
Bean, 114, 196
Black nightshade, 548
Buckwheat, 646
Bluegrass, 491
Capsicum annuum, 114
Eggplant, 291
Field peas, 491, 493, 489, 492–494
Glycine max, 196
Lycopersicon peruvianum, 4
Mung bean, 491, 494
Nicotiana plumbaginifolia, 9
Pepper, 548
Phaseolus vulgaris, 114, 196
Physalis floridana, 23
Pisum sativum, 196
Sorghum, 491
Squash, 548
Sugar beet, 491
Sudan grass, 489, 492–494
Tomato, 548
Velvetleaf, 548
Vicia faba, 195, 197, 200, 201
Wheat, 491, 489, 494
Winter rye, 646
Zea mays, 195–201, 491
Planting speed, 32
Plant transpiration, 537–539, 544
Plot design to compare yield and quality, 315
Potato breeding
2 diploid clones, 1, 2, 3
4 diploid clones, 1, 2, 3
Androgenesis, 2
Anther donors, 457
Breeding for resistance to potato leafhopper, 393
Chilean germplasm, 827
Chilota collection, 827–829
Chimeras, 2
Chromosome doubling, 1, 8
Clonal differences, 309
Collection of clones resistant or tolerant to bacterial ring rot, 294
Correlation of yields and specific gravity of tuberlings and second year clones, 817–826
Evaluation of Russet Burbank clones, 300–307
Female fertility of doubled monoploids, 453

Fertility of doubled monoploids, 447–457
First division restitution (FDR), 448, 449
Flower induction *in vitro*, 266
Flowering potential of doubled monoploids, 449, 451
Fruit and seed set of doubled monoploids, 452
Germplasm collection (IR-1), 290
Gynogenesis, 2
Heterozygosity, 448
Hexaploids, 4, 8
Homozygous lines, 448, 449
Hybridization, 818
Internode explants, 1, 3, 4, 9, 11
Leaf explants, 1, 3, 4, 9, 11
Line selection, 309
Maine crosses resistant or tolerant to *Corynebacterium sepedonicum*, 295
Male fertility of doubled monoploids, 450
Overall hybridization potential of doubled monoploids, 453
Performance of leafhopper resistant cultivars, 391–400
Polyploidization, 2
Regeneration ability, 4, 9
Regeneration frequencies, 1, 2, 4
Selected species from IR-germplasm, 290
Selected species rated for immunity or tolerance to bacterial ring rot, 293
Scaling ploidy levels, 1, 3, 4
Somatic mutations, 300
Trichomes, 843–846
True potato seed, 448, 449
Potato cultivars (new)
Coastal Chip, 223, 225, 227, 515–521
Michigold, 629–632
Ranger Russet, 483–489
Russet Nugget, 331
Spartan Pearl, 785–790
Potato cultivars (old)
Atlantic, 3, 41, 42, 46–49, 95, 97, 100, 102, 118, 119, 121–126, 167, 169, 172, 176, 181, 223, 225, 227, 229–236, 241–244, 247–248, 353–359, 385, 387–389, 428, 461–467, 515–521, 538, 540, 629–632, 646, 648, 650–652, 785–790, 846
Alaska, 114, 229–236
Allegany, 845
Alpha, 229–236, 549, 635–642
Atzimba, 87
Bake King, 229–236
BelRus, 241–243, 247, 248, 290, 363, 364, 366, 549
Bintje, 229–236
Butte, 371, 379, 381, 484, 549, 550, 554, 563
Cardinal, 669
Centennial Russet, 333, 334
Chaleur, 461–467
Cherokee, 461–467
Cobbler, 646, 650–652
Denali, 229–236
Desiree, 229–236, 461–467, 549, 562, 653–663, 667, 678, 671–674
Early Rose, 428
Eramosa, 385, 387–389
Frontier Russet, 315–318, 549
Green Mountain, 189, 646, 650–652
Haig, 229–236
HiLite Russet, 315–318
Hudson, 637–642, 843
Kanona, 223, 225, 227, 385, 387–389
Katahdin, 549, 551, 555, 556, 693, 695, 696
Kennebec, 105, 107–112, 114, 160, 181, 188, 190, 192, 229–236, 391–395, 399, 400, 461–467, 646, 648, 650–652, 662, 693, 695–697, 702
Keswick, 646, 650–652
Krantz, 332
LaBelle, 223, 227
LaChipper, 41, 45, 47, 96, 97, 100, 102
Lemhi Russet, 428, 430, 431
Lenape, 428, 786
Marijke, 265, 266
Maris Piper, 562, 794
Merrimac, 290
Michibonne, 785
Mirton Pearl, 364, 366
Monona, 118, 119, 121–126, 517, 538, 540, 561, 563, 566, 568, 569, 787, 788, 845
Nampa, 549
New York, 81, 229–236
Norchip, 143, 147, 300, 335, 364, 365, 369, 385, 387–389, 517, 538, 540, 561, 563, 566, 568, 569, 633, 646, 647, 650–652, 654, 664, 785, 788–790
Nooksack, 331, 332
Norgold Russet, 118, 300, 315, 318, 332, 335, 428, 484, 538, 540, 550, 551, 554, 555, 556, 559
Norking Russet, 538, 540
Norkotah Russet, 315–318, 335, 538, 540
Norland, 143, 144, 147, 229–236, 335, 538, 540, 563, 567–569, 646, 648, 650–652

Norwis, 13–18
Onaway, 385, 387–389, 632, 787, 788, 812
Ontario, 14, 143
Ottar, 229–236
Pentland Crown, 562
Reddale, 105, 109–114
Red Lasoda, 300
Red Pontiac, 300, 335, 461–467, 563, 568, 569
Redsen, 563, 567–569
Russet Burbank, 31, 34, 35, 47, 48, 118, 143, 144, 147, 160, 161, 167, 169, 172, 176, 181, 188, 190–192, 229-236, 275, 276, 278, 299, 300, 301, 331–335, 356, 371, 373–379, 381, 413–415, 428, 430, 431, 483–488, 492–494, 527, 538, 540, 547, 549, 550–557, 562, 563, 567–569, 631, 652–663, 667, 668, 671–673, 705–713, 793, 794, 798–801, 805, 806, 808–814, 831, 832
Rutt, 229–236
Saginaw Gold, 385, 387–389
Sangre, 143, 144, 147, 335
Saranac, 290
Sebago, 181, 187, 188, 190–192, 637–642
Shepody, 335, 530, 549, 805, 806, 809–814
Shoshoni, 332
Snogg, 229–236
Snowchip, 229–236
Sunrise, 13–18
Superior, 41, 42, 45–49, 95, 97, 100, 102, 143, 144, 147, 181, 187, 188, 190–192, 229–236, 241–243, 247, 248, 503, 509, 550, 551, 554, 556, 563, 566, 568, 569, 637–642, 646, 648, 650–652, 787, 788
Targhee, 371, 373, 376, 377, 549
Teton, 290
Trent, 646–648, 650–652
Troll, 229–236
Up-To-Date, 663
Wauseon, 516, 517, 786
White Rose, 428, 430
Yukon Gold, 629–633
Potato Cultivars (Numbered Seedlings)
A119-1, 484
A139-1, 484
A183-8, 484
A279-7, 484
A492-2, 484
A496-4, 484
A503-42, 549
A6595-3, 484
A6698-4, 332
A66107-51, 371, 373, 376, 377, 549, 550, 554
A66138-8, 332
A68113-4, 371, 373, 376, 377, 449, 551, 555, 557
A69870-10, 428
A7411-2, 484 (Ranger Russet)
A75188-3, 428
A7938-1, 428
A79196-1, 667, 668, 671–675
A81438-2, 428, 431
A8694-5, 549
AF303-5, 14
AF1332-52, 366, 369
AND71609-1, 332
ATL5, 3-7, 9
ATL7, 3-7
ATL8, 3, 5-7, 11
B3200-2, 484
B3478-23, 366, 369
B3672-3, 517
B4159-8, 517
B5141-6, 516, 517
B9792-158, 223, 225, 227
CA-13, 646, 650–652
COA8016-1, 428
COA81103-5, 428
CS7635-4, 13-18
D733-3, 843, 844
DTO28, 653–663, 667, 668, 671–675
E1264-2, 843, 844
F725-5, 843, 844
FL162, 428
G165-9, 843, 844
G6743-5, 332
H266-2, 844
IA902-3, 786
IA8724, 876
J115-1, 843
K421-844
L235-4, 844
LT-1, 653–663, 667, 668, 671–674
LT-4, 462, 468
MN366.65-3, 332
MS002-171Y, 630
MS003-22Y, 630
MS003-69Y, 630
MS004-198Y, 630
MS700-70, 385, 387–389
MS700-83, 385, 387–389, 785, 786 (Spartan Pearl)

MS704-10Y, 629, 630 (Michigold)
MS716-15, 385, 388, 389
NC004-1, 223, 225, 227
ND671-4R, 538–540
ND860-2, 223, 225, 227
ND865-2, 538–540
ND1538-1R, 538–540
ND1618-13, 538–540
ND2008-2, 538–540
ND2475-8, 484
ND2667-9R, 538–540
NDA8694-3, 550, 554
NYL235-4, 843–846
PI1.22, 3
Q155-3, 843, 844
TXA763-5, 428, 431
UP88C68, 2, 5, 6, 7
UP88-147, 2, 5, 6, 7
UP88-760, 2, 5, 6, 7
W-855, 385, 387–389 (Snowden)
WF31-4, 223, 225, 227
WF46-4, 223, 225, 227
WRCC27, 332, 333
WY1122, 295, 364–366, 369
Potatoes for life support in space, 229–231
Potato leafhopper resistance, 693
Potato quality, 489, 491, 495–499, 705
Assimilates (tagged Carbon ^{14}C), 661–668
Chip colors, 385, 388, 389, 517, 519, 522, 645–650, 790
Cooking quality, 15, 16, 17, 488
Cooking quality of film wrapped potatoes, 277–285
External quality of Ranger Russet, 487
Free and protein bound tyrosine levels in twelve cultivars, 429, 432
Free tyrosine, 423, 426, 429, 432
French fry color, 334, 486, 528, 529, 535, 799, 801, 805, 810
French fry color (dark stem end), 793, 794, 798, 801, 802
French fry color development, 534, 552
Fructose, 810–812
Glucose, 385, 388, 389, 525–530, 534, 535, 805, 806, 808, 810–812
Hot-water blanching, 525, 526
Internal quality of Ranger Russet, 487
Maillard reaction, 525, 805
Mono and diphenols, 425, 430
Non-enzymatic browning, 525, 526
Phenylalinine, 433
Polyphenoloxidase, 425
Potato amino acids, 423, 525, 526
Potato protein, 423, 427, 430
Processing quality as affected by Rhizoctonia solani, 646–652
Protein-bound tyrosine, 423, 426, 429, 430
Quality correlations (S.G.), 813
Reducing sugars, 486, 525, 526, 805, 807, 811, 814
Sensory quality of film wrapped potatoes, 275, 277–279, 280–285
Specific gravity, 95, 101–103, 279, 334, 385, 387, 389, 486, 517, 520–522, 537, 542, 632, 633, 645–652, 788, 789, 799, 801
Specific gravity determination, 386, 817
Sugar analysis, 807
Vitamin C content of Ranger Russet and Russet Burbank, 486
Vitamin C content of Russet Nugget, 331
Potato species (*Solanum*)
acaule, 292
andigena, 694
berthaultii, 399, 843, 844
chacoense, 1, 2, 391, 392, 398, 399, 450, 454, 457, 694
demissum, 425
hertingii, 425
phureja, 2, 3, 4, 9, 447, 449, 450, 452, 454, 457
tuberosum, 1, 2, 39, 40, 95, 117, 133, 195, 229, 230, 240, 289, 300, 309, 353, 391–400, 425, 457, 490, 503, 561–563, 635, 693, 694, 700–702, 844
Preconditioning immature potatoes, 805, 806, 808
Premature death of vines, 548, 557
Rating system Horsfall-Barratt, 41
Resistance to golden nematode, 516, 517
Response of cultivars to continuous light and high temperatures, 229
Ring rot tolerance, 290
R-PAGE, 161
Seedpiece doubling, 33–37
Seedpiece size versus whole seed, 117
Seedpiece spacing, 31, 32, 33, 35
Effect on total yield, 31–36
Effect on tuber size distribution, 31–36
Seedpiece spacing of Spartan Pearl, 790
Seedpiece spacing variability, 32
Seed type, 117–119, 128
Sequential harvest data, 319–324
Short term chip storage, 785

Size distribution of Spartan Pearl, 790
Soft rot potential evaluation, 41, 42
Soil moisture responses to delayed irrigation, 785
Soil supressiveness to verticillium wilt, 503–506, 510
Specific gravities, 311
Stolons, 562
Stolon hooking, 796, 799
Stolon initiation, 562
Stolon length, 561
Stolon length variations, 564–568
Storage of immature potatoes, 805
Storage moisture conditions for true potato seed, 85, 90, 91
Storage of true potato seed, 85, 87, 90, 92
Stress sequence for water, 415, 417
Successive cropping effect on verticillium wilt, 503–506
Systemic insecticide-nematicides, 379, 380
Temperature penalty, 353, 357, 358
Temperature effect of short term exposure of seed tubers to below freezing in Fall before harvest, 143–147
Time of harvest. Effects on yield and specific gravity, 385, 387
Tolerance to herbicides, 173
Trichomes, 843–846
True potato seed (TPS), 85, 86, 255, 290, 448, 449
  Dormancy, 87
  Germination, 85
  Quality, 85
  Technology, 86, 255
  Viability, 86, 92
  Vigor, 86
True potato seed precision seeding device, 255–263
Tuber bulking, 563
Tuber dormancy, 437, 438
Tuberization, 131, 132, 134, 136, 137, 562
Tuberization *in vitro*, 461–465
Tuberization light effects on *in vitro* tuberization, 461
Tuberization media (cytokinin), 462
Tuberization media effects, 463, 466
Tuberization response, 461, 462
Tuber numbers, 695, 700
Tuber roots, 568, 569
Tuber size distribution, 632, 705, 709–711, 790, 800
Tuber tissue expansion, 537
Tuber weight loss, 813,
Tuber yield and development, 353
Tuber yields of populations for leafhopper resistance, 376
Udenfriend and Cooper nitroso-napthylene method for tyrosine determination, 426
Viruses
  ELISA, 161
  ELISA (cocktail), 21, 22, 24–26, 29
  ELISA (DAS), 21–23, 25, 26, 28, 29, 827
  ELISA (enzyme amplified), 21, 22, 25, 26, 28, 29
  ELISA (NCM), 827, 828
  PLRV, 21–28, 790
  PSTVd, 157, 160, 161, 164, 165
  PVA, 21–28
  PVM, 21–28
  PVS, 21–28, 827, 828
  PVX, 21–28, 157, 160, 161, 164, 165, 483, 516, 517, 790, 827, 828, 844
  PVY, 21–28, 483, 827, 828, 844
  R-PAGE, 161
Vacuum insect collector, 157–164
Water allocation patterns, 415, 417–419
Water stress, 793, 794, 802, 831, 932
Water stress (early season), 794, 799, 801, 802
Weed control, 167–176
Weeds
  Amaranthus retroflexus, 167, 169, 170, 171, 199
  Chenopodium album, 169–174
  Echinochloa crus-galli, 169–172
Wound healing tissues, 105, 110, 111
Yield correlations, 817
Yield-effect of seedpiece spacing, 31–36
Yield of chipping cultivars, 387, 389
Yields-following rotations and fumigation, 489, 491, 495–499
Yields-marketable, 102, 143, 486, 645–648
Yields-tuber, 95, 101–103, 486, 520–522, 631–633, 645–648, 667, 695, 698
Yield of Russet Nugget, 324
Yield reduction by seed size, 117, 124–126
Yield reduction from missing plants, 32
Yield reduction from hail damage, 705, 710–713

Author Index

ADAM, L.R., *see* PRITCHARD, M.K.
ALFORD, R., *see* MENA, J.
ANDERHALDEN, E., *see* RODER, W.
ANTONOV, L.S., *see* VAYDA, M.E.
ARRENDELL, S., *see* HAYNES, K.G.
ARSENAULT, W., *see* BOSWALL, P.
ASIEDU, S.K., *see* NOWAK, J.
AUDY, P., E. ZIMNOCH-GUZOWSKI, L. TUFFORD, S.A. SLACK, P.F. PALUKAITIS, and M. ZAITLIN. Study of virus resistance in transgenic potato plants expressing replicase gene sequences of potato virus Y and potato leafroll virus, 571 (abst.).
AUSTIN-PHILLIPS, S., *see* HELGESON, J.P.
BAKER, T.P., *see* LOVE, S.L.
BAMBERG, J.B., *see* STONE, J.M.
BANNER, J., *see* SHOCK, C.C.
BANVILLE, G.J., *see* OTRYSKO, B.E.
BARTZ, J.A., S.J. LOCASCIO, and D.P. WEINGARTNER. Calcium and potassium fertilization of potatoes grown in North Florida. II. Effect on the bacterial soft rot potential in the tubers, 39.
BARTZ, J.A., *see* LOCASCIO, S.J.
BELKNAP, W.R., *see* CORSINI, D.L.
BELKNAP, W.R., *see* PAVEK, J.J.
BENNETT, M.A., *see* KLEINHENZ, M.D.
BENNETT, S.M., *see* TIBBITTS, T.W.
BERGER, P.H., *see* SHETTY, K.
BERMIER, D., *see* DUCHESNE, R.M.
BERNARD, G., *see* BOITEAU, G.
BIEVER, D.K. and R.L. CHAUVIN. Integrating transgenic B.t. potatoes and predators for control of the Colorado potato beetle, 571 (abst.).
BINNING, L.K., *see* CONNELL, T.R.
BINNING, L.K., *see* HANSON, J.E.
BOERSIG, M., *see* GROZA, H.
BOITEAU. G. Plastic lined trenches for the control of Colorado potato beetles, 572 (abst.).
BOITEAU, G., *see* DUCHESNE, R.M.
BOITEAU, G., G.C. MISENER, R.P. SINGH, and G. BERNARD. Evaluation of a vacuum collector for insect pest control in potato, 157.
BONANNO, H.M., *see* HANSON, J.E.
BONIERBALE, M.W., R.L. PLAISTED, and S.D. TANKSLEY. Evaluation of heterozygosity and its value as a performance parameter in tetraploid potatoes, 572 (abst.).
BONIERBALE, M.W., *see* PINEDA, O.
BONIERBALE, M.W., *see* VANdenBERG, J.H.
BOSWALL, P., T. CLARKE, R. COFFIN, and W. ARSENAULT. Effect of chlorpropham on the viability of potato tuber sprouts, 572 (abst.).
BOUCHER, A., *see* SINGH, R.P.
BURNETT, D.S., *see* SHOCK, C.C.
BUTLER, W.O., *see* VAYDA, M.E.
BUTTLER, I.W., *see* ROBERTS, S.
BOYDSTON, R.A., *see* THORNTON, R.E.
CAISSIE, R., *see* McLEOD, C.D.
CAMPBELL, W.L. Heirloom varieties: How can they be certified? 573 (abst.).

CAMPBELL, W.L. An overview of potato production in Alaska, 573 (abst.).
CAO, W., *see* TIBBITTS, T.W.
CARDI, T., D. CARPUTO, and L. FRUSCIANTE. *In vitro* shoot regeneration and chromosome doubling in 2x and 3x potato clones, 1.
CARLSON, H.L., B.B. WESTERDAHL, and H. FERRIS. Reduction of nematode tuber blemish by early harvest and variety selection, 574 (abst.).
CARPUTO, D., *see* CARDI, T.
CASH, J.H., *see* SINHA, N.K.
CHASE, R.W., *see* DOUCHES, D.S.
CHASE, R.W., *see* SINHA, N.K.
CHASE, R.W., N.R. THOMPSON, R.B. KITCHEN, G.H. SILVA, R. HAMMERSCHMIDT, and D.S. DOUCHES. Michigold: A yellow-fleshed potato cultivar for fresh market, 629.
CHAUVIN, R.L., *see* BIEVER, D.K.
CHENG, H.H., *see* ROBERTS, S.
CHENG, H.T., M.C. MARRA, and J.D. LEIBY. Commodity program flexibility and U.S. potato acreage, 677.
CHENG, J., *see* VEILLEUX, R.E.
CHRIST, B.J. and D.M. PETRUNAK. Evaluation of potato cultivars and clones for resistance to powdery scab, 574 (abst.).
CHRIST, B.J. and. D.M. PETRUNAK. Comparison of early blight epidemics of six *Alternaria solani* isolates on eight potato cultivars, 575 (abst.).
CHRIST, B.J., *see* HAYNES, K.G.
CLARK, M.C., *see* KING, R.R.
CLARKE, T., *see* BOSWALL, P.
CLEAR, R.M., *see* KAWCHUK, L.M.
COFFIN, R., *see* BOSWALL, P.
COFFIN, R.H., *see* LYNCH, D.R.
COFFIN, R.H., *see* PEREIRA, A.
COFFIN, J. and R., *see* TERMEER, A.
COLEMAN, W.K, G. HAWKINS, J. McINERNEY, and M. GODDARD. Development of a dormancy release technology: A review, 437.
COLLINS, W.W., *see* WANNAMAKER, M.J.
CONNELL, T.R. and L.K. BINNING. A weed management module for the potato crop management program, 575 (abst.).
CONTERAS, A., *see* THEODULOZ, G.
CORSINI, D.L., *see* LOVE, S.L.
CORSINI, D.L., *see* MARTIN, M.W.
CORSINI, D.L., J.J. PAVEK, and W.R. BELKNAP. Field performance of transgenic potatoes expressing glucuronidase activity, 575 (abst.).
CORSINI, D.L., J.J. PAVEK, and B. DEAN. Differences in free and protein-bound tyrosine among potato genotypes on the relationship to internal blackspot resistence, 423.
CORSINI, D.L., *see* PAVEK, J.J.
CRAIG, JR.J.C., *see* TOMASULA, P.M.
DAVIDSON, R.D. and K.W. KNUTSON. Impact of a limited generation, tissue culture based program on seed potato production in Colorado, 576 (abst.).
DAVIS, J.R., S.L. HAFEZ, and L.H. SORENSEN. Lesion nematode suppression with the Butte potato and relationships to *Verticillium* wilt, 371.
DAVIS, J.R., O.C. HUISMAN, L.H. SORENSEN, and A.T. SCHNEIDER. Verticillium control following green manure treatments and two consecutive years of potato cropping, 576 (abst.).
DAVIS, J.R., *see* MOHAN, S.K.
DAVIS, J.R., *see* WESTERMANN, D.T.

DEAHL, K.L., *see* SANFORD, L.L.
DEAHL, K.L., S.P. DeMUTH, G. PELTER, and D.J. ORMROD. First report of resistance of *Phytophthora infestans* to metalaxyl in eastern Washington and British Columbia, Canada, 577 (abst.).
DEAN, B., *see* CORSINI, D.L.
DeMUTH, S.P., *see* DEAHL, K.L.
DERKSEN, R.C., *see* MOYER, D.D.
DONNELLY, D.J., *see* LECLERC, Y.
DOUCHES, D.S., *see* CHASE, R.W.
DOUCHES, D.S., *see* FREYRE, R.
DOUCHES, D.S. and K. JASTRZEBSKI. Assessment of potato breeding progress in the U.S., 577 (abst.).
DOUCHES, D.S., R.W. CHASE, G.H. SILVA, R. HAMMERSCHMIDT, N.R. THOMPSON and R.B. KITCHEN. Spartan Pearl: A widely adopted, high yielding white skin potato cultivar, 785.
DRAPER, M.A. and N.C. GUDMESTAD. Mechanical transmission of PVY by seed cutting, 577 (abst.).
DRUMMOND, F., *see* MENA, J.
DRUMMOND, F., *see* ZHANG, J.
DUCHESNE, R.M., D. BERNIER, and C. JEAN. Utilization of a propane flamer in potato fields in Quebec, 578 (abst.).
DUCHESNE, R.M. and G. BOITEAU. The impact of hardware on success for control of the Colorado potato beetle, 578 (abst.).
DUCHESNE, R.M., *see* PARENT, J.G.
DUKPA, P., *see* RODER, W.
DWELLE, R.B., *see* GAWRONSKA, H.
DWELLE, R.B., *see* MALIK, N.J.
DWELLE, R.B., *see* SHETTY, K.
EASTON, G.D. Effect of seed storage conditions on expression of ring rot symptoms in plants grown from infected tubers, 579 (abst.).
EASTON, G.D., M.E. NAGLE and M.D. SEYMOUR. Potato production and incidence of *Verticillium dahliae* following rotation to nonhost crops and soil fumigation in the state of Washington, 489.
EHLENFELDT, M.K. Evaluation of differential tuber tissue expansion and plant transpiration as methods for early hollow heart screening, 537.
ELDREDGE, E., *see* SOWOKINOS, J.
ESCALANTE, B. and A.R. LANGILLE. Effect of antigibberellin growth retardants on growth and yielding ability of Allegheny and Russet Burbank under field conditions, 579 (abst.).
ESPINOLA, N., *see* PALLAIS, N.
EWING, E.E., *see* VANdenBERG, J.H.
FELLMAN, J.K., *see* SHETTY, K.
FERRIS, H., *see* CARLSON, H.L.
FERRO, D.N., *see* VOSS, R.H.
FITZGERALD, C.B. and L.S. MORROW. Field testing of two quick nitrogen measurement methods, 580 (abst).
FRANC, G.D. A novel potato seed cutter design and its efficacy for reduction of pathogen spread during seed cutting, 580 (abst.).
FRAVEL, D.R., *see* KEINATH, A.P.
FRENKEL, C., M.R. HENNINGER, and F.W. PUNK. Ethanol alleviates the deleterious response in cold-stored potates for chipping, 580 (abst.).
FREYRE, R. and D. DOUCHES. Localization of quantitative trait loci in diploid potato, 581 (abst.).

FROMMEL, M.I., J. NOWAK, and G. LAZAROVITS. Treatment of potato tubers with a plant growth promoting (PGPR) *Pseudomonas sp.*: Bacterium distribution in the rhizosphere and plant growth responses, 581 (abst.).
FROMMEL, M.I., J. NOWAK, and G. LAZAROVITS. The genes responsible for growth stimulation of potato by *Pseudomonas sp.* strain PS JN are clustered, 582 (abst.).
FRUSCIANTE, L., *see* CARDI, T.
FRY, W.E., *see* PARKER, J.M.
GAO, Y. and J.F. GUENTHNER. Domestic and export demand for U.S. frozen potato products in year 2000, 582 (abst.).
GARTLEY, C., *see* MILBURN, P.
GAWRONSKA, H., M.K. THORNTON, and R.B. DWELLE. Influence of heat stress on dry matter production and photo-assimilate partitioning by four potato clones, 653.
GEHRING, M.A., *see* HANSON, J.E.
GODDARD, M., *see* COLEMAN, W.K.
GOINS, E.W., *see* WILSON, D.R.
GOTH, R.W., K.G. HAYNES, D.R. WILSON, and R.J. YOUNG. Field evaluation of potato breeding lines for scab resistance, 582 (abst.).
GOTH, R.W., A. HADIDI, L. LEVY, and M.S. MONTASSER. Detection of potato leafroll *Luteovirus* in infected potato plants and viruliferous aphids by reverse transcription polymerase chain reaction amplification, 583 (abst.).
GOTH, R.W., *see* HAYNES, K.G.
GOTH, R.W., *see* WEINGARTNER, D.P.
GOTH, R.W., *see* WILSON, D.R.
GRAU, G.R., *see* KELLING, K.A.
GROZA, H., M. BOERSIG, and H. TIMM. Prolonged dormancy and physiological age of minitubers, 583 (abst.).
GUDMESTAD, N.C., *see* DRAPER, M.A.
GUDMESTAD, N.C., *see* NOLTE, P.
GUENTHNER, J.F. Privatization of potato cultivars, 584 (abst.).
GUENTHNER, J.F., *see* GAO, Y.
GUENTHER, C., *see* HELGESON, J.P.
GURUNG, P., *see* RODER, W.
HABERLACH, G.T., *see* HELGESON, J.P.
HADIDI, A., *see* GOTH, R.W.
HAFEZ, S.L., *see* DAVIS, J.R.
HAGEN, S., *see* MUNETA, P.
HALDERSON, J.L., J.C. OJALA, G.W. HARDING, and E.V. MUSSELMAN. Influence of seed placement on Russet Burbank potato yield and grade, 31.
HALSETH, D.E., *see* HAYNES, K.G.
HALSETH, D.E., *see* MERIDA, C.L.
HAMMERSCHMIDT, R., *see* CHASE, R.W.
HAMMERSCHMIDT, R., *see* DOUCHES, D.S.
HAMMOND, D.F. Minutes of Certification Section Meeting in Vancouver, BC, Nov. 30, 1990, 155.
HAMMOND, D.F., *see* HAYNES, K.G.
HAMMOND, M.W., *see* STEVENS, R.G.
HANE, D.C., *see* PAVEK, J.J.
HANNEMAN, JR., R.E. A cooperative enhancement plan for potatoes, 584 (abst.).
HANSON, J.E., L.K. BINNING, M.A. GEHRING, and H.M. BONANNO. Defining herbicide transport through the use of computed tomography, 585 (abst.).
HARDING, G.W., *see* HALDERSON, J.L.

HARKETT, P.J. The influence of cutting seed on potato production and quality for french fry processing in England, 585 (abst.).
HARRISON, S., *see* MUNETA, P.
HAWKINS, G., *see* COLEMAN, W.K.
HAYNES, F.L., *see* HAYNES, K.G.
HAYNES, K.G., *see* GOTH, R.W.
HAYNES, K.G., R.W. GOTH, S.B. STERRETT, B.J. CHRIST, D.E. HALSETH, G.A. PORTER, M.R. HENNINGER, D.R. WILSON, R.E. WEBB, D.F. HAMMOND, R. MOORE, F.L. HAYNES, S. ARRENDELL, M.J. WANNAMAKER, and S.L. SINDEN. Coastal Chip: A chipping potato variety resistant to heat stress, 515.
HAYNES, K.G. and D.R. WILSON. Correlation of yield and specific gravity in a hybrid diploid population of *Solanum tuberosum* groups *Phureja* and *Stenotomum*, 586 (abst.).
HAYNES, K.G. and D.R. WILSON. Correlations for yield and specific gravity between potato tuberlings and second year field generations, 817.
HAYNES, K.G. and W.E. POTTS. Minimizing inbreeding in derived tetraploids from 2x-2x crosses, 586 (abst.).
HAYNES, K.G., *see* WILSON, D.R.
HELGESON, J.P., *see* NOVY, R.
HELGESON, J.P., J.D. POHLMAN, C. GUENTHER, D.H. RONIS, G.T. HABERLACH, L. ZAMBOLIM, S. AUSTIN-PHILLIPS, R.G. NOVY, R.V. JAMES, and W.R. STEVENSON. Somatic hybrids between *Solanum bulbocastanum* and potato: Possible new sources of disease resistance genes, 586 (abst.).
HENNINGER, M.R., *see* FRENKEL, C.
HENNINGER, M.R., *see* HAYNES, K.G.
HENNINGER, M.R., *see* LEE, G.S.
HENNINGER, M.R., S.B. STERRETT, and M.J. WANNAMAKER. Evaluation of preplant conditioning on yield and development of internal heat necrosis, 587 (abst.).
HENNINGSON, P.J., *see* NOLTE, P.
HEPLER, P.R., *see* LANGILLE, A.R.
HERO, D., *see* KELLING, K.A.
HILLER, L.K., C.O. STOCKLE, S.L. VICTORY, and M.L. JOHNSON. Irrigation scheduling methods influencing potato production and quality, 587 (abst.).
HOBSON, J. and SHOCK, C.C.
HOGUE, R. and S. ROY. Specific identification of *Clavibacter michiganense* Subsp. *sepedonicum* by the polymerase chain reaction (PCR), 588 (abst.).
HOLM, D.G., J.C. MILLER, JR., and D.G. SMALLWOOD. Russet Nugget: A fresh market and processing potato cultivar with resistance to common scab, 331.
HOLM, D.G., *see* PAVEK, J.J.
HOSAKA, K. Chloroplast DNA types of the Japanese potato variety, 588 (abst.).
HUBERT, E., *see* THEODULOZ, G.
HUISMAN, O.C., *see* DAVIS, J.R.
IRITANI, W.M., *see* PAVEK, J.J.
ISHIKI, K., *see* WATANABE, K.
JAMES, R.V., *see* HELGESON, J.P.
JAMES, S.R., *see* PAVEK, J.J.
JASTRZEBSKI, K., *see* DOUCHES, D.S.
JEAN, C., *see* DUCHESNE, R.M.
JOHNSON, D.A. and E.R. MILICZKY. Distribution and development of black dot, verticillium wilt, and powdery scab on Russet Burbank potatoes in Washington State, 588 (abst.).
JOHNSON, M.L., *see* HILLER, L.K.
JOHNSON, S.B. Effects of potato crop rotations in Maine, 589 (abst.).

JOHNSON, S.B. Analysis of potato harvesters with an instrumented sphere, 589 (abst.).
JONES, E.D., *see* MELCHING, J.B.
KAUFMAN, P., *see* WYMAN, J.
KAWCHUK, L.M., D.R. LYNCH, and R.M. CLEAR. Isolation of *Fusarium sambucinum* from a tuber wet rot, 590 (abst.).
KEINATH, A.P. and D.R. FRAVEL. Induction of soil suppressiveness to Verticillium wilt of potato by successive croppings, 503.
KELLING, K.A., G.R. GRAU, D.I. ROUSE, A. MacGUIDWIN, and D. HERO. Nitrogen needs of potatoes following forage legumes, 590 (abst.).
KEZIS, A.S., *see* SMITH, D.A.
KING, B.A., *see* McCANN, I.R.
KING, R.R., H.C. LAWRENCE, and M.C. CLARK. Update on investigations involving phytotoxins associated with *Streptomyces scabies*, 591 (abst.).
KITCHEN, R.B., *see* CHASE, R.W.
KITCHEN, R.B., *see* DOUCHES, D.S.
KLEINHENZ, M.D. and M.A. BENNETT. Growth and yield of potato (*Solanum tuberosum* L.) cultivars Atlantic and Monona as influenced by seed type and size, 117.
KLEINKOPF, G.E., *see* SHETTY, K.
KLEINKOPF, G.E., *see* WILLE, M.J.
KNUTSON, K.W. History of the Certification Section of The PAA, 401.
KNUTSON, K.W., *see* DAVIDSON, R.D.
KNUTSON, K.W., F.D. MOORE, S.R. NATH, and J.A. WEISS. Comparison of non-destructive and destructive leaf area index evaluation methods, 591 (abst.).
KNUTSON, K.W., *see* MOORE, F.D.
KOZEMPEL, M.F., *see* TOMASULA, P.M.
KRATZKE, M.G. and J.P. PALTA. Variations in stolon length and in incidence of tuber roots among eight potato cultivars, 561.
KURANTZ, M.J., *see* TOMASULA, P.M.
KUROWSKI, C.J. and F.E. MANZER. Reevaluation of *Solanum* species accessions showing resistance to bacterial ring rot, 289.
KUROWSKI, JR., C.J., *see* MANZER, F.E.
LACY, G.H., *see* VAYDA, M.E.
LADD, JR.,T.L., *see* SANFORD, L.L.
LANGILLE, A.R., *see* ESCALANTE, B.
LANGILLE, A.R. and P.R. HEPLER. Effect of three anti-gibberellin growth retardants on tuberization of induced and non-induced Katahdin potato leaf-bud cuttings, 131.
LAWRENCE, H.C., *see* KING, R.R.
LAWSON, D.R., *see* VEILLEUX, R.E.
LAZAROVITS, G., *see* FROMMEL, M.I.
LECLERC, Y. and D.J. DONNELLY. Potato microtuber 1. The influence of inducing agents on the microtuber yield of three potato cultivars, 591 (abst.).
LECLERC, Y. and D.J. DONNELLY. Potato microtuber 2. Microtuber quality as influenced by size and inducing agents, 592 (abst.).
LEE, G.S., S.B. STERRETT, and M.R. HENNINGER. A heat-sum model to determine yield and onset of internal heat necrosis for Atlantic potato, 353.
LEIBY, J.D., *see* CHENG, H.T.
LEVY, L., *see* GOTH, R.W.
LOCASCIO, S.J., *see* BARTZ, J.A.
LOCASCIO, S.J., J.A. BARTZ, and D.P. WEINGARTNER. Calcium and potassium fertilization of potatoes grown in north Florida. I. Effects on potato yield and tissue Ca and K concentrations, 95.

LOJKOWSKI, E., *see* ZIMMOCH-GUZOWSKI, E.
LOO, G. and E., *see* TERMEER, A.
LORIA, R., *see* MERIDA, C.L.
LORIA, R., *see* URIBE, E.
LOVE, S.L., *see* PAVEK, J.J.
LOVE, S.L., T.P. BAKER, A. THOMPSON-JOHNS, and J.J. PAVEK. Mutation breeding for low total glycoalkaloids in the potato breeding clone NDA1725-1, 592 (abst.).
LOVE, S.L., A.L. THOMPSON, T.P. BAKER, and D.L. CORSINI. Comparison of Russet Burbank clones from various geographical regions of the United States and Canada, 299.
LOZOYA-SALDANA, H. Photoperiod, gibberellic acid, and kinetin in potato flower differentiation *in vitro*, 265.
LOZOYA-SALDANA, H. Growth inhibitors in potato *in vitro*. I. Alar, cycocel, ethrel and maleic hidrazide, 593 (abst.).
LOZOYA-SALDANA, H. Growth inhibitors in potato *in vitro*. II. Alar and paclobutrazol, 593 (abst.).
LULAI, E.C. Verification of ligno-suberization with a new fluorescent histochemical probe, 594 (abst.).
LULAI, E.C. and P.H. ORR. Development of a technique for screening skin-set in breeding selections, 594 (abst.).
LULAI, E.C., *see* VAUGHN, S.F.
LYNCH, D.R. and R.H. COFFIN. Short-term exposure to low temperature in the fall affects field performance of seed tubers, 143.
LYNCH, D.R., *see* KAWCHUK, L.M.
MAAS, A., *see* TERMEER, A.
MACHADO, V.S., *see* PEREIRA, A.
MacGUIDWIN, A., *see* KELLING, K.A.
MacLEOD, J.A., *see* MILBURN, P.
MacLEOD, J.A., J.B. SANDERSON and P. MILBURN. Nitrate leaching in potato soils I. Fall management after potato crop, 594 (abst.).
MacLEOD, J.A., *see* SANDERSON, J.B.
MALIK, N.J., R.B. DWELLE, M.K. THORNTON, and J.J. PAVEK. Dry matter accumulation in potato clones under seasonal high temperature conditions in Pakistan, 667.
MANZER, F.E. and C.J. KUROWSKI, JR. Bacterial ring rot disease development in resistant and susceptible cultivars, 363.
MANZER, F.E., *see* KUROWSKI, JR., C.J.
MARRA, M.C., *see* CHENG, H.T.
MARTIN, M.W. A plot design to sequentially harvest early generation selections and its use in evaluating fresh market characteristics of three new cultivars, 315.
MARTIN, M.W., J.J. PAVEK, and D.L. CORSINI. Leafroll resistant germplasm for the Northwest, 595 (abst.).
MARTIN, M.W., J.J. PAVEK, and D.L. CORSINI. PVY resistant cultivars and germplasm for the Northwest, 595 (abst.).
MARTIN, M.W., J.J. PAVEK, and D.L. CORSINI. Early dying resistant cultivars and germplasm for the Northwest, 596 (abst.).
MARTIN, M.W., *see* PAVEK, J.J.
McCANN, I.R., *see* STARK, J.C.
McCANN, I.R., J.C. STARK and B.A. KING. Evaluation and interpretation of the crop water stress index for well watered potatoes, 831.
McINERNEY, J., *see* COLEMAN, W.K.
McLEOD, C.D., G.C. MISENER, G.C.C. TAI, and R. CAISSIE. A precision seeding device for true potato seed, 255.
McLEOD, M.J., *see* MOYER, D.D.

MELCHING, J.B., E.D. JONES, and S.A. SLACK. Field production of nuclear seed stocks using *in vitro* plantlets, 596 (abst.).
MELCHING, J.B., S.A. SLACK, and R.L. PLAISTED. A scheme for rapid multiplication of nuclear seed stocks of advanced breeding selections and varieties for seed producers, 597 (abst.).
MELDRUM, J., *see* WEINGARTNER, D.P.
MENA, J., F. DRUMMOND, G. PORTER, and R. ALFORD. Impact of potato fertilization on the development of the Colorado potato beetle, 597 (abst.).
MEREDITH, P. The shapes of potato tubers objectively measured, 598 (abst.).
MERIDA, C.L., R. LORIA, and D.E. HALSETH. Silver scruf severity is affected by cultivar resistance and harvest date, 598 (abst.).
MEZA-BASSO, L., *see* THEODULOZ, G.
MILBURN, P., *see* MacLEOD, J.A.
MILBURN, P., J.E. RICHARDS, C. GARTLEY, H. O'NEIL, and J.A. MacLEOD. Leaching losses associated with potato production in Atlantic Canada, 598 (abst.).
MILLER, JR, J.C., *see* HOLM, D.G.
MILLER, A.R., *see* VEILLEUX, R.E.
MILICZKY, E.R., *see* JOHNSON, D.A.
MISENER, G.C., *see* BOITEAU, G.
MISENER, G.C., *see* McLEOD, C.D.
MOHAN, S.K., J.R. DAVIS, L.H. SORENSEN, and A.T. SCHNEIDER. Infection of aerial parts of potato plants by *Colletotrichum coccodes* and its effects on premature vine death and yield, 547.
MONTASSER, M.S., *see* GOTH, R.W.
MOONEY, J. and S.J. PELOQUIN. Phenotypic recurrent selection for 2N pollen frequency, 599 (abst.).
MOORE, R., *see* HAYNES, K.G.
MOORE, F.D., K.W. KNUTSON, and S.R. NATH. Development of genetic coefficient towards variety management, 599 (abst.).
MOORE, F.D., *see* KNUTSON, K.W.
M'RIBU, H.K. and R.E. VEILLEUX. Fertility of doubled monoploids of *Solanum phureja*, 447.
MORROW, L.S., *see* FITZGERALD, C.B.
MOSLEY, A.R., *see* PAVEK, J.J.
MOYER, D.D., R.C. DERKSEN, and M.J. McLEOD. Development of a propane flamer for Colorado beetle control, 599 (abst.).
MUNETA, P., S. HARRISON, and S. HAGEN. Reducing and nonreducing sugars in potato callus as affected by variety, temperature, and sugar substrate, 600 (abst.).
MUSSELMAN, E.V., *see* HALDERSON, J.L.
NAGLE, M.E., *see* EASTON, G.D.
NATH, S.R., *see* KNUTSON, K.W.
NATH, S.R., *see* MOORE, F.D.
NOLTE, P., G.A. SECOR, N.C. GUDMESTAD, and P.J. HENNINGSON. Identification of fluorescent compounds in potato tuber tissue associated with symptoms of pink eye disease, 600 (abst.).
NOVY, R. and J.P. HELGESON. Somatic hybridizations with *Solanum etuberosum*, 600 (abst.).
NOVY, R.G., *see* HELGESON, J.P.
NOWAK, J. and S.K. ASIEDU. Gelling agent and light effects on *in vitro* tuberization of potato cultivars, 461.
NOWAK, J., *see* FROMMEL, M.I.
OJALA, J.C., *see* HALDERSON, J.L.
OJALA, J.C., *see* PAVEK, J.J.

OJALA, J.C. Proceedings of the symposium - Maintaining potato productivity into the 21st century, 715.
O'NEIL, H., *see* MILBURN, P.
ORMROD, D.J., *see* DEAHL, K.L.
ORR, P.H., *see* LULAI, E.C.
ORRILLO, M., *see* WATANABE, K.
OTRYSKO, B.E. and G.J. BANVILLE. Effect of infection by *Rhizoctonia solani* on the quality of tubers for processing, 645.
PAGE, D., *see* PARENT, J.G.
PALLAIS, N. and N. ESPINOLA. Seed quality as affected by nitrogen during true potato seed production and moisture conditions during storage, 85.
PALTA, J.P., *see* KRATZKE, M.G.
PALTA, J.P., *see* STONE, J.M.
PALUKAITIS, P.F., *see* AUDY, P.
PARENT, J.G., D. PAGE, and R.M. DUCHESNE. Selective disappearance of esterase isozymes during diapause of Colorado potato beetle, 601 (abst.).
PARKER, J.M., H.D. THURSTON, M.J. VILLARREAL-GONZALEZ, and W.E. FRY. Stability of disease expression in the potato late blight pathosystem: A preliminary field study, 635.
PAVEK, J.J., *see* MALIK, N.J.
PAVEK, J.J., D.L. CORSINI, S.L. LOVE, and A. THOMPSON-JOHNS. Ranger Russet: A new dual-purpose russet, 602 (abst.).
PAVEK, J.J., D.L. CORSINI, and W.R. BELKNAP. Transmission of the GUS gene through egg and pollen of potato, 602 (abst.).
PAVEK, J.J., D.L. CORSINI, S.L. LOVE, D.C. HANE, D.G. HOLM, W.M. IRITANI, S.R. JAMES, M.W. MARTIN, A.R. MOSLEY, J.C. OJALA, C.E. STANGER, and R.E. THORNTON. Ranger Russet: A long russet potato variety for processing and fresh market with improved quality, disease resistance, and yield, 483.
PAVEK, J.J., *see* CORSINI, D.L.
PAVEK, J.J., *see* LOVE, S.L.
PAVEK, J.J., *see* MARTIN, M.W.
PAVLISTA, A.D. Effects of AC243,654 seed treatments on yield of Superior potatoes, 601 (abst.).
PEAVEY, S.R., *see* SMITH, D.A.
PELOQUIN, S.J., *see* MOONEY, J.
PELOQUIN, S.J., *see* THILL, C.A.
PELTER, G., *see* DEAHL, K.L.
PEREIRA, A., R.Y. YADA, G.C.C. TAI, R.H. COFFIN, and V.S. MACHADO. Use of sugar content for indirect selection of chip color in potatoes, 603 (abst.).
PETRUNAK, D.M., *see* CHRIST, B.J.
PINEDA, O., M.W. BONIERBALE, R.L. PLAISTED, and S.D. TANKSLEY. Localization of an RFLP marker linked to the H1 gene in potato, 603 (abst.).
PLAISTED, R.L., *see* BONIERBALE, M.W.
PLAISTED, R.L., *see* MELCHING, J.B.
PLAISTED, R.L., *see* PINEDA, O.
PLAISTED, R.L., *see* VANdenBERG, J.H.
PLAISTED, R.L., W.M. TINGEY and J.C. STEFFENS. The germplasm release of NYL 235-4, a clone with resistance to the Colorado potato beetle, 843.
PLATT, H.W. Cultivar response to fusarium storage rot as affected by two methods of seed origin propagation; clonal selection and *in vitro* culture, 179.
PLATT, H.W. Potato cultivar response to late blight as affected by clonal selection and *in vitro* culture, 187.
PLATT, H.W. Differential response of potato cultivars and breeding lines to two verticillium wilt pathogens, 604 (abst.).

POBLETE, F., *see* THEODULOZ, G.
POHLMAN, J.D., *see* HELGESON, J.P.
PORTER, G.A., *see* HAYNES, K.G.
PORTER, G.A., *see* MENA, J.
PORTER, G.A., T.T. TINDALL, and J.A. SISSON. Nitrogen uptake from soil and fertilizer by potatoes grown in rotation with barley/forage legume intercrops, 604 (abst.).
POTTS, W.E., *see* HAYNES, K.C.
PRITCHARD, M.K. and L.R. ADAM. Preconditioning and storage of chemically immature Russet Burbank and Shepody potatoes, 805.
PUNK, F.W., *see* FRENKEL, C.
REEVES, A.F., *see* SMITH, D.A.
RENNER, K.A. Timing of herbicide application and potato hilling, 167.
REX, B.L. Effect of nitrogen on Russet Burbank and Shepody potatoes, 604 (abst.).
RICHARDS, J.E., *see* MILBURN, P.
RIVERA-PENA, A. *Phytophthora infestans* (MONT.) DeBary on the eastern slopes of the Volcano Nevado De Toluca and at the Toluca Valley Experimental Station, 605 (abst.).
ROBERTS, S., H.H. CHENG, and I.W. BUTTLER. Recovery of starter nitrogen-15 fertilizer with supplementarily applied ammonium nitrate on irrigated potatoes, 309.
RODER, W., E. ANDERHALDEN, P. GURUNG, and P. DUKPA. Potato intercropping systems with maize and faba bean, 195.
RONIS, D.H., *see* HELGESON, J.P.
ROUSE, D.I., *see* KELLING, K.A.
ROUSE, D., *see* SECOR, G.
ROWE, R.C. Future challenges in managing potato health, 769.
ROY, S., *see* HOGUE, R.
SAEZ-VASQUEZ, J., *see* THEODULOZ, G.
SANDERSON, J.B. and J.A. MacLEOD. Nitrate leaching in potato soils II. Time of incorporation of legume, 605 (abst.).
SANDERSON, J.B., *see* MacLEOD, J.A.
SANDERSON, J.B., *see* WHITE, R.P.
SANFORD, L.L., K.L. DEAHL, S.L. SINDEN, and T.L. LADD, JR. Glycoalkaloid levels in tubers from *Solanum tuberosum* populations selected for potato leafhopper resistance, 606 (abst.).
SANFORD, L.L., K.L. DEAHL, S.L. SINDEN, and T.L. LADD, JR. Glycoalkaloid contents in tubers from *Solanum tuberosum* populations selected for potato leafhopper resistance, 693.
SANFORD, L.L. and T.L. LADD, JR. Performance of populations derived by selecting for resistance to potato leafhopper in a 4x *Solanum tuberosum* x 2x *Solanum chacoense* cross, 391.
SAUNDERS, M., *see* SHOCK, C.C.
SCHNEIDER, A.T., *see* DAVIS, J.R.
SCHNEIDER, A.T., *see* MOHAN, S.K.
SECOR, G.A., *see* NOLTE, P.
SECOR, G. and D. ROUSE. Proceedings of second conference on pinkeye of potatoes, 149.
SEYMOUR, M.D., *see* EASTON, G.D.
SHETTY, K.K., R.B. DWELLE, and J.K. FELLMAN. Sensory and cooking quality of individually film wrapped potatoes, 275.
SHETTY, K.K., G.E. KLEINKOPF, P.H. BERGER, R.B. DWELLE, and J.K. FELLMAN. A strategy for the study of potato bud proteins using two-dimensional electrophoresis with the phastsystem, 606 (abst.).
SHOCK, C.C., *see* SOWOKINOS, J.
SHOCK, C.C., T.D. STIEBER, J. HOBSON, J. BANNER, and M. SAUNDERS. Tractor traffic and mechanical straw mulching of potato furrows, 606 (abst.).

SHOCK, C.C., J.C. ZALEWSKI, T.D. STIEBER and D.S. BURNETT. Impact of early-season water deficits on Russet Burbank plant development, tuber yield and quality, 793.
SHUMAKER, J.R., *see* WEINGARTNER, D.P.
SILVA, G.H., *see* CHASE, R.W.
SILVA, G.H., *see* DOUCHES, D.S.
SINDEN, S.L., *see* HAYNES, K.G.
SINDEN, S.L., *see* SANFORD, L.L.
SINGH, R.P., *see* BOITEAU, G.
SINGH, R.P. and A. BOUCHER. Comparison of tobacco cultivars for the detection of PVY^N from mixed infections of PVX and PVY^o, 607 (abst.).
SINGH, R.P. and T.H. SOMERVILLE. Evaluation of the enzyme-amplified ELISA for the detection of potato viruses A, M, S, X, Y, and leafroll, 21.
SINGH, R.P. and T.H. SOMERVILLE. Excised leaf culture for the elimination of PVX from mixed infections in the detection of PVY^N using tobacco bioassay, 607 (abst.).
SINGH, R.P., T.H. SOMERVILLE, and A. BOUCHER. Specificity of various antisera for the detection of PVY^N, 608 (abst.).
SINHA, N.K., J.N. CASH, and R.W. CHASE. Differences in sugars, chip color, specific gravity and yield of selected potato cultivars grown in Michigan, 385.
SISSON, J.A., *see* PORTER, G.A.
SLACK, S.A., *see* AUDY, P.
SLACK, S.A., *see* MELCHING, J.B.
SMALLWOOD, D.G., *see* HOLM, D.G.
SMITH, D.A., S.R. PEAVEY, A.F. REEVES, and A.S. KEZIS. A comparison of consumer satisfaction with the Sunrise, CS7635-4, and Norwis round white potato varieties, 13.
SOMERVILLE, T.H., *see* SINGH, R.P.
SORENSEN, L.H., *see* DAVIS, J.R.
SORENSEN, L.H., *see* MOHAN, S.K.
SOWOKINOS, J., C. SHOCK, T. STIEBER, and E. ELDREDGE. Biochemical and compositional changes associated with the sugar-end defect in Russet Burbank potatoes, 608 (abst.).
SPENCER, G.F., *see* VAUGHN, S.F.
SPOONER, D.M. Book Review - The Potatoes of South America: Bolivia, 51.
STANGER, C.E., *see* PAVEK, J.J.
STARK, J.C. and I.R. McCANN. Optimal allocation of limited water supplies for Russet Burbank potatoes, 413.
STARK, J.C., *see* McCANN, I.R.
STAFFENS, J.C., *see* PLAISTED, R.L.
STERRETT, S.B., *see* HAYNES, K.G.
STERRETT, S.B., *see* HENNINGER, M.R.
STERRETT, S.B., *see* LEE, G.S.
STEVENS, R.G. and M.W. HAMMOND. Soil resources: What is needed and how do we maintain these resources, 717.
STEVENSON, W.R., *see* HELGESON, J.P.
STIEBER, T.D., *see* SHOCK, C.C.
STIEBER, T., *see* SOWOKINOS, J.
STOCKLE, C.O., *see* HILLER, L.K.
STONE, J.M., J.P. PALTA, J.B. BAMBERG, and L.S. WEISS. Inheritance of freezing tolerance and capacity to acclimate in tuber-bearing *Solanum* (potato) species, 609 (abst.).
TAI, G.C.C., *see* McLEOD, C.D.
TAI, G.C.C., *see* PEREIRA, A.
TANKSLEY, S.D., *see* BONIERBALE, M.W.

TANKSLEY, S.D., *see* PINEDA, O.
TANKSLEY, S.D., *see* VANdenBERG, J.H.
TERMEER, A., A. MAAS, G. and E. LOO, J. and R. COFFIN. Development of a private potato breeder's association in Prince Edward Island, Canada, 609 (abst.).
TETEN, K.L. and R.E. VEILLEUX. Variation in anther culture of *Solanum phureja* due to greenhouse temperature effects on donor plants and anther distribution in culture, 609 (abst.).
THEODULOZ, G., J. SAEZ-VASQUEZ, F. PROBLETE, A. CONTERAS, E. HUBERT, and L. MEZA-BASSO. The incidence of potato virus X, Y and S in the Chilota collection, 827.
THILL, C.A. and S.J. PELOQUIN. Potato chip color at the 24 chromosome level, 610 (abst.).
THILL, C.A. and S.J. PELOQUIN. Breeding clones that chip from 4C storage, 610 (abst.).
THOMPSON, A.L., *see* LOVE, S.L.
THOMPSON, N.R., *see* CHASE, R.W.
THOMPSON, N.R., *see* DOUCHES, D.S.
THOMPSON-JOHNS, A., *see* LOVE, S.L.
THOMPSON-JOHNS, A., *see* PAVEK, J.J.
THORNTON, M.K., *see* GAWRONSKA, H.
THORNTON, M.K., *see* MALIK, N.J.
THORNTON, R.E. and R.A. BOYDSTON. Foliar symptoms and yield response of potato cultivars to Sencor (metribuzen) and Prowl (pendimethalin), 611 (abst.).
THORNTON, R.E., *see* PAVEK, J.J.
THURSTON, H.D., *see* PARKER, J.M.
TIBBITTS, T.W., W. CAO and S.M. BENNETT. Utilization of potatoes for life support in space V. Evaluation of cultivars in response to continuous light and high temperature, 229.
TIMM, H., *see* GROZA, H.
TINDALL, T.T., *see* PORTER, G.A.
TINGEY, W.M., *see* PLAISTED, R.L.
TOMASULA, P.M., M.F. KOZEMPEL, M.J. KURANTZ, and J.C. CRAIG, JR. Computer control of blancher for french fry color, 525.
TUFFORD, L., *see* AUDY, P.
URIBE, E. and R. LORIA. Potato genotypes vary in their response to root rot and internal decay caused by *Colletotrichum coccodes*, 611 (abst.).
VANdenBERG, J.H., M.W. BONIERBALE, E.E. EWING, R.L. PLAISTED, and S.D. TANKSLEY. Use of RFLP-linkage to detect loci affecting tuberization, 612 (abst.).
VAUGHN, S.F. and E.C. LULAI. Hypersensitive and enzyme responses in potato tuber tissue treated with *Verticillium dahliae* and arachidonic acid, 105.
VAUGHN, S.F. and G.F. SPENCER. *Fusarium sambucinum* strains are inhibited by naturally occurring potato tuber sprout suppressants, 612 (abst.).
VAYDA, M.E., L.S. ANTONOV, Z. YANG, W.O. BUTLER, and G.H. LACY. Hypoxic stress inhibits aerobic wound-induced resistance and activates hypoxic resistance to bacterial soft rot, 239.
VEILLEUX, R.E., J. CHENG, A.R. MILLER, and D.R. LAWSON. Expression of leaf glykoalkaloids in *Solanum phureja* x *S. chacoense* hybrids, 613 (abst.).
VEILLEUX, R.E., *see* M'RIBU, H.K.
VEILLEUX, R.E., *see* TETEN, K.L.
VEGA, S., *see* WATANABE, K.
VICTORY, S.L., *see* HILLER, L.K.
VILLARREAL-GONZALEZ, M.J., *see* PARKER, J.M.
VOS, J. A case history: Hundred years of potato production in Europe with special reference to The Netherlands, 731.

VOSS, R.H. and D.N. FERRO. Population dynamics of the Colorado potato beetle (*Coleoptera chrysomelidae*) in western Massachusetts, 473.
WANNAMAKER, M.J. and W.W. COLLINS. Effect of year, location, and harvest on susceptibility of cultivars to internal heat necrosis in North Carolina, 221.
WANNAMAKER, M.J. and W.W. COLLINS. Transfer of high dry matter from the 2x to 4x level in potato, 613 (abst.).
WANNAMAKER, M.J., *see* HAYNES, K.G.
WANNAMAKER, M.J., *see* HENNINGER, M.R.
WATANABE, K., M. ORRILLO, and K. ISHIKI. Cytology on wild polyploid tuber-bearing *Solanum* species, 614 (abst.).
WATANABE, K., M. ORRILLO, and S. VEGA. Sexual hybrids between 2x potato breeding lines on non-tuber-bearing *Solanum* species, 614 (abst.).
WATANABE, K., S. VEGA, and M. ORRILLO. Characterization of S. acaule introgression lines, 613 (abst.).
WEBB, R.E., *see* HAYNES, K.G.
WEINGARTNER, D.P., *see* BARTZ, J.A.
WEINGARTNER, D.P., R.W. GOTH, J.R. SHUMAKER, and J. MELDRUM. Incidence and severity of corky ringspot disease in 20 cultivars and 4 potato clones in Nematicide treated and untreated soil, 614 (abst.).
WEINGARTNER, D.P., *see* LOCASCIO, S.J.
WEISS, J.A., *see* KNUTSON, K.W.
WEISS, L.S., *see* STONE, J.M.
WESTERDAHL, B.B., *see* CARLSON, H.L.
WESTERMANN, D.T. and J.R. DAVIS. Nutritional effects of green manure crops on potatoes, 615 (abst.).
WESTERMANN, D.T. and J.R. DAVIS. Potato nutritional management changes and challenges into the next century, 753.
WHITE, R.P. and J.B. SANDERSON. Greensprouting and irrigation effects on Superior potato production in Prince Edward Island, 615 (abst.).
WILLE, M.J. and G.E. KLEINKOPF. Effect of simulated hail damage on yield and quality of Russet Burbank potatoes, 705.
WILSON, D.R., E.W. GOINS, K.G. HAYNES, and R.W. GOTH. Testing with ELISA and cDNA for production and maintenance of disease-free clones in a potato breeding program, 616 (abst.).
WILSON, D.R., *see* GOTH, R.W.
WILSON, D.R., *see* HAYNES, K.G.
WYMAN, J. and P. KAUFMAN. Trap cropping to reduce Colorado potato beetle populations, 616 (abst.).
YADA, R.Y., *see* PEREIRA, A.
YANG, Z., *see* VAYDA, M.E.
YOUNG, R.J., *see* GOTH, R.W.
ZAITLIN, M., *see* AUDY, P.
ZALEWSKI, J.C., *see* SHOCK, C.C.
ZAMBOLIM, L., *see* HELGESON, J.P.
ZHANG, J. and F. DRUMMOND. Biology of *Harpalus rufipes digger* in Maine, 617 (abst.).
ZIMNOCH-GUZOWSKI, E., *see* AUDY, P.
ZIMNOCH-GUZOWSKI, E. and E. LOJKOWSKA. Resistance to *Erwinia* in diploid potatoes, 617 (abst.).